

*Verbund- und Querkraftbemessung*

Baunummer **57-3-270-02**

Bauvorhaben **Weißbarr 3, 55743 Idar-Oberstein**

Bauteil **Obergeschoss**

verwendete Gitterträger

Typ	Zulassung	Untergurt [mm]	Obergurt [mm]	Diagonale [mm]	Höhe [cm]
KTS 116	Z-15.1-38	6	6	7	16.00
KT 813	Z-15.1-1	6	8	6	13.00
KT 815	Z-15.1-1	6	8	6	15.00
KT 817	Z-15.1-1	6	8	6	17.00

Eingabewerte

Pos.	Breite [m]	Länge [m]	Träger Typ Montage	Anz.	h [cm]	d [cm]	c [cm]	nom [cm]	Beton [kN/m <sup>2</sup> ]	Ved [kN/m]	As [cm <sup>2</sup> /m]	vorh. ZugBew.	Snd. [kN]	Last [m]	Lastabst. [m]	Abst. rechts [m]
l 1	1.40	4.59	KT 815	3	25.0	21.0	3.0	C 25/30	80.00	80.00	3.35					
r 1									80.00	80.00	3.35					
l 2	1.22	4.34	KT 815	2	25.0	21.0	3.0	C 25/30	80.00	80.00	3.35					
r 2									80.00	80.00	3.35					
l 3	1.76	5.61	KT 817	3	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 3									80.00	80.00	3.35					
l 4	1.22	5.61	KT 817	2	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 4									80.00	80.00	3.35					
l 5	1.22	9.91	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 5									80.00	80.00	3.35					
l 6	1.22	9.85	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 6									80.00	80.00	3.35					
l 7	1.22	9.63	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 7									80.00	80.00	3.35					
l 8	1.22	9.41	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 8									80.00	80.00	3.35					
l 9	1.22	9.20	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 9									80.00	80.00	3.35					
l 10	1.22	8.98	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 10									80.00	80.00	3.35					
l 11	1.22	8.76	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 11									80.00	80.00	3.35					
l 12	1.22	9.91	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 12									80.00	80.00	3.35					
l 13	1.22	9.91	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 13									80.00	80.00	3.35					
l 14	0.79	9.91	KT 817	3	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 14									80.00	80.00	3.35					
l 15	0.91	9.88	KT 817	3	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 15									80.00	80.00	3.35					
l 16	1.00	4.45	KT 817	2	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35					
r 16									80.00	80.00	3.35					

## Eingabewerte

Pos.	Breite	Länge	Typ	Anz.	h	d	c	nom	Beton	Ved	As vorh.	Snd. Last	Lastabst.	Abst. rechts
[s]l/r	[m]	[m]	Träger Montage		[cm]	[cm]	[cm]		[kN/m <sup>2</sup> ]	[kN/m]	ZugBew. [cm <sup>2</sup> /m]	[kN]	[m]	[m]
l 17	0.81	8.05	KT 817	3	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35			
r 17									80.00	80.00	3.35			
l 18	1.22	8.27	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35			
r 18									80.00	80.00	3.35			
l 19	1.22	8.49	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35			
r 19									80.00	80.00	3.35			
l 20	1.22	8.70	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35			
r 20									80.00	80.00	3.35			
l 21	1.22	8.92	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35			
r 21									80.00	80.00	3.35			
l 22	1.22	9.14	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35			
r 22									80.00	80.00	3.35			
l 23	1.22	9.36	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35			
r 23									80.00	80.00	3.35			
l 24	1.22	9.58	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35			
r 24									80.00	80.00	3.35			
l 25	1.22	9.80	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35			
r 25									80.00	80.00	3.35			
l 26	1.22	9.91	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35			
r 26									80.00	80.00	3.35			
l 27	1.22	8.32	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35			
r 27									80.00	80.00	3.35			
l 28	1.22	8.53	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35			
r 28									80.00	80.00	3.35			
l 29	1.22	8.75	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35			
r 29									80.00	80.00	3.35			
l 30	1.22	8.97	KT 817	4	25.0	22.0	2.0	C 25/30	80.00	80.00	3.35			
r 30									80.00	80.00	3.35			
l 31	1.00	6.10	KT 815	2	25.0	21.0	3.0	C 25/30	90.00	90.00	4.24			
r 31									90.00	90.00	4.24			
l 32	1.00	6.10	KT 815	2	25.0	21.0	3.0	C 25/30	90.00	90.00	4.24			
r 32									90.00	90.00	4.24			

Ausgabewerte

Verbundnachweis

Querkraftnachweis

Pos.	Vrd,c	Bew	Hebel	Ved	Vrd,c	Vrd,sy	Typ	Anz.	Vrd,sy	Vrd,sy	Länge	Vrd, zul.	Vrd,cc	erf.As	vorh. as	cot	Vrd, zul.
[s]l/r		Art	arm z	Fuge	Fuge	Gt.-	Träger	Platte	Fuge	Fuge	gew.	Fuge		Quer-		teta	Quer-
	[kN/m]	V/Q	[cm]	[kN/m <sup>2</sup> ]	[kN/m <sup>2</sup> ]	Montage	Zulage	Breite	Zulage	Gesamt	[m]	[kN/m <sup>2</sup> ]	[kN/m <sup>2</sup> ]	[cm <sup>2</sup> /m]	[cm <sup>2</sup> /m]		[kN/m]
l 1	102.07	V	18.9	423.28	408.00	272.25	-	-	-	680.25	-	2800.00	-	-	-	-	-
r 1	102.07	V	18.9	423.28	408.00	272.25	-	-	-	680.25	-	2800.00	-	-	-	-	-
l 2	102.07	V	18.9	423.28	408.00	207.53	-	-	-	615.53	-	2800.00	-	-	-	-	-
r 2	102.07	V	18.9	423.28	408.00	207.53	-	-	-	615.53	-	2800.00	-	-	-	-	-
l 3	105.12	V	19.8	404.04	408.00	211.05	-	-	-	619.05	-	2800.00	-	-	-	-	-
r 3	105.12	V	19.8	404.04	408.00	211.05	-	-	-	619.05	-	2800.00	-	-	-	-	-
l 4	105.12	V	19.8	404.04	408.00	202.98	-	-	-	610.98	-	2800.00	-	-	-	-	-
r 4	105.12	V	19.8	404.04	408.00	202.98	-	-	-	610.98	-	2800.00	-	-	-	-	-
l 5	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 5	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 6	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 6	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 7	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 7	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 8	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 8	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 9	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 9	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 10	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 10	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 11	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 11	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 12	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 12	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 13	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 13	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 14	105.12	V	19.8	404.04	408.00	468.41	-	-	-	876.41	-	2800.00	-	-	-	-	-
r 14	105.12	V	19.8	404.04	408.00	468.41	-	-	-	876.41	-	2800.00	-	-	-	-	-
l 15	105.12	V	19.8	404.04	408.00	409.53	-	-	-	817.53	-	2800.00	-	-	-	-	-
r 15	105.12	V	19.8	404.04	408.00	409.53	-	-	-	817.53	-	2800.00	-	-	-	-	-
l 16	105.12	V	19.8	404.04	408.00	247.63	-	-	-	655.63	-	2800.00	-	-	-	-	-
r 16	105.12	V	19.8	404.04	408.00	247.63	-	-	-	655.63	-	2800.00	-	-	-	-	-
l 17	105.12	V	19.8	404.04	408.00	455.76	-	-	-	863.76	-	2800.00	-	-	-	-	-
r 17	105.12	V	19.8	404.04	408.00	455.76	-	-	-	863.76	-	2800.00	-	-	-	-	-
l 18	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 18	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 19	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 19	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-

Ausgabewerte

Verbundnachweis

Querkraftnachweis

Pos.	Vrd,c	Bew	Hebel	Ved	Vrd,c	Vrd,sy	Typ	Anz.	Vrd,sy	Vrd,sy	Länge	Vrd, zul.	Vrd,cc	erf.As	vorh. as	cot	Vrd, zul.
[s]l/r	[kN/m]	Art	arm z	Fuge	Fuge	Gt.-	Träger	Platte	Fuge	Fuge	gew.	Fuge	[kN/m <sup>2</sup> ]	Quer-	Quer-	teta	Quer-
		V/Q	[cm]	[kN/m <sup>2</sup> ]	[kN/m <sup>2</sup> ]	Montage	Zulage	Breite	Zulage	Gesamt	[m]	[kN/m <sup>2</sup> ]	[kN/m <sup>2</sup> ]	[cm <sup>2</sup> /m]	[cm <sup>2</sup> /m]	vorh	[kN/m]
l 20	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 20	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 21	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 21	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 22	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 22	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 23	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 23	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 24	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 24	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 25	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 25	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 26	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 26	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 27	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 27	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 28	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 28	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 29	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 29	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 30	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
r 30	105.12	V	19.8	404.04	408.00	405.95	-	-	-	813.95	-	2800.00	-	-	-	-	-
l 31	102.07	V	18.9	476.19	408.00	253.19	-	-	-	661.19	-	2800.00	-	-	-	-	-
r 31	102.07	V	18.9	476.19	408.00	253.19	-	-	-	661.19	-	2800.00	-	-	-	-	-
l 32	102.07	V	18.9	476.19	408.00	253.19	-	-	-	661.19	-	2800.00	-	-	-	-	-
r 32	102.07	V	18.9	476.19	408.00	253.19	-	-	-	661.19	-	2800.00	-	-	-	-	-